

YASHOVARDHAN MALHOTRA

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EDUCATION

Pennsylvania State University (University Park), PA, USA
Master of Science (MS): Computer Science Engineering (CSE).

August 2024 - Present
CGPA: 3.70 /4.00

SRM Institute of Science and Technology
Bachelor of Technology (B. Tech.): Computer Science Engineering (CSE)

May 2017-May 2021
CGPA: 3.60 /4.00

PROFESSIONAL EXPERIENCE

Softlink Information Systems

Senior Software Developer - Contract

July 2024 - Sept 2024

- Developed and optimized an OGMA plugin, enhancing network visualizations which garnered positive feedback from over 75 users who reported improved workflow efficiency attributed directly to these changes.
- Reduced rendering time by **47%**, and improving real-time user interaction for **Extreme Networks**.
- Achieved 100% compliance with Extreme Networks' standards and security protocols, leading to a 20% reduction in production issues and boosted client confidence.
- Boosted visualization speed by **30%** and ensured seamless integration with Ogma's core API.
- Reduced debugging time by **40%** through continuous support and issue resolution.

TATA Consultancy Services

Team Lead/Software Developer - Fulltime

April 2023 - Sept 2023

- Spearheaded the end-to-end development, deployment, and support of a mobile application for the Directorate General of Foreign Trade in India, enhancing accessibility for over 10,000 users seeking trade resources.
- Deployed mobile applications across Android and iOS platforms, achieving a streamlined user experience that facilitated over 10,000 downloads within the first week of launch.
- Managed AWS services, leading the infrastructure for **microservices**, ensuring robust **CI/CD** practices that resulted in a **40% increase** in system efficiency and stability, utilizing AWS tools like **Lambda, EC2, and CloudWatch** to streamline operations.
- Designed and integrated the systems of the Directorate General of Foreign Trade (DGFT) with the National Single Window Scheme (NSWS), consolidating diverse licensing processes, which enhanced application processing times by 30%..
- Engineered high-performance **REST APIs** in Java, increasing **API scalability by 50%**, and enhanced **system stability by 40%** through AWS microservices management.
- Created a comprehensive database for the National Single Window Scheme, consolidating 6 diverse licensing processes into one unified platform, leading to streamlined operations and reduced processing times by **30 hours** weekly.
- Administered robust management of AWS repositories and CI/CD pipelines that resulted in a **reduction of deployment errors by over 25%**, establishing reliable workflows crucial for maintaining system integrity.

Software Developer - Fulltime

June 2021 - March 2023

- Created secure authentication API that **reduced banking fraud by 80%** in the Foreign Trade sector, notably enhancing security and trust..
- Executed and deployed 15+ REST API microservices using Java and AWS, improving system modularity and cutting latency by 40%
- Automated export license transmissions using AWS schedulers and triggers, reducing failure rates to less than 2%.
- Integrated over 1 million bank records using Java and Hibernate, dramatically improving data accessibility and optimizing system performance for seamless, real-time transactions.
- Transformed a legacy database and seamlessly integrated it with a new, high-performance system, ensuring data consistency, optimizing query performance, and enabling smoother data migration without any downtime.

ACADEMIC PROJECT

- Composed Image Retrieval using Contrastive Learning and Task-oriented CLIP-based Features ([link](#))** -Implemented a state-of-the-art method, fine-tuning the model with **PyTorch and TensorFlow**, and evaluating the model's performance, leveraging **deep learning and computer vision**.
- Early Stage Prediction of Diabetes Mellitus Using Machine Learning Algorithms ([link](#))** – Used AI methods such as **SVM, Logistic Regression, and ANN**, aimed at improving diagnostic accuracy and predicting the disease before its onset.

TECHNICAL SKILLS

- Languages & Frameworks:** PyTorch, TesnorFlow NumPy, Sklearn, Java, JavaScript, TypeScript, C++, Angular, Node.js, SQL, Cypher QL
- Related Coursework:** Machine Learning and AI, Deep Learning, Computer Vision and Language, Data Mining, Data Structures
- AWS:** Lambda, EC2, S3, SNS, SQS, CloudWatch, API Gateway, EventBridge
- Development:** Microservices, Application Development, FullStack Development, OGMA libraries

CERTIFICATIONS / TRAININGS

- Machine Learning - Stanford University**
- AWS Cloud Practitioner Essentials -Amazon Web Services**
- Graph Database Certification - Softlink Information Systems**